

Amendments to the Specification

Please replace the paragraph at page ¹²~~13~~, lines 4 through 6 with the following amended paragraph:

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Optionally, there is a load balancing function ~~[[11]]~~ ¹⁶ in front of the host 12 processors, which directs individual transactions to specific host or hosts 12 so as to evenly distribute workload.

Please replace the paragraph at page ¹⁶~~17~~, line 17 with the following amended paragraph:

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[[B.]] C. DETAILED DESCRIPTION OF PSDP ARCHITECTURE

Please add the following new paragraphs at page ¹⁶~~17~~, line ¹⁶~~17~~ (before B. DETAILED DESCRIPTION OF PSDP ARCHITECTURE):

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B. JPU SOFTWARE COMPONENTS

Fig. 3 is a diagram of the software components of a JPU 22.

Communications Layer 300

- Provides internal communication among nodes
- Includes Job Listener 301 to await requests
- Includes Network Poster 302 to send data when buffer filled, job completed, or at

Host request

JPU Dispatch/Scheduler 304

- Receives plan through Communications Layer 300
- Queues Plan
- Schedules/dispatches jobs according to their priority, "fairness" to date, expected resource requirements, and available resources